

IN THE CLAIMS:

Please amend Claims 1, 4 to 6, 21, 24 to 26 and 32 to 36, as shown below.

The claims, as pending in the subject application, read as follows:

- Sub Cl*
1. (Currently Amended) An image display apparatus comprising:  
space modulation means for modulating incident light according to input  
display data and outputting the modulated incidence light;  
illumination means for time sequentially illuminating said space modulation  
means with generating a plurality of light beams having different colors; and ,time  
sequentially switching the generated light beams and illuminating said space modulation  
means with the light beam; and  
projection means for projecting light emitted from said space modulation  
means upon an image display screen,  
wherein a white light illumination period is provided for said illumination  
means per each interval between illumination periods for the plurality of light beams  
having different colors.
- B1 cont*
2. (Original) An image display apparatus according to claim 1,  
wherein during the white light illumination period provided for the plurality of light beams  
having different colors, a white luminance emphasizing process is dispersively performed.
3. (Original) An image display apparatus according to claim 1 or 2,  
wherein synchronously with the white light illumination period provided for the plurality of

light beams having difference color, a period of a white luminance emphasizing signal applied to said space modulation means is set longer than the white light illumination period and overlapped with a color light illumination period.

4. (Currently Amended) An image display apparatus comprising:

space modulation means for modulating incident light according to input display data and emitting the modulated incidence light;

illumination means for generating a plurality of light beams having different colors, time sequentially illuminating said space modulation means with a plurality of light beams having different colors; and switching the generated light beams and illuminating said space modulation means with the light beam; and

projection means for projecting light emitted from said space modulation means upon an image display screen,

wherein said illumination means has a white light illumination period having a length corresponding to an illumination light transition period provided per each interval between illumination periods for the plurality of light beams having different colors, and said space modulation means repeats modulation twice during a signal period overlapping the white light illumination period, by using a same modulated signal for a white light gradation display having a length corresponding to an illumination light transition period to thereby set the signal period having a length twice the illumination light transition period.

B)

5. (Currently Amended) An image display apparatus comprising:

space modulation means for modulating incident light according to input display data and emitting the modulated incidence light;

illumination means for time sequentially illuminating said space modulation means with generating light beams of three primary colors of red (R), green (G) and blue (B); and , time sequentially switching the generated light beams and illuminating said space modulation means with the light beam; and

projection means for projecting light emitted from said space modulation means upon an image display screen,

wherein said illumination means has a plurality of groups each having at least each of three boundary periods period between red and green, green and blue, and blue and red, respectively of illumination periods of the three primary colors, of the plurality of groups, at least one group is supplied with a signal different from signals supplied to other groups, and a same group is applied with a same signal during each of the three boundary periods period between red and green, green and blue, and blue and red.

B1

6. (Currently Amended) An image display apparatus comprising:  
space modulation means for modulating incident light according to input display data and emitting the modulated incidence light;  
illumination means for time sequentially illuminating said space modulation means with generating light beams of three primary colors of red (R), green (G) and blue (B); and , time sequentially switching the generated light beams and illuminating said space modulation means with the light beam; and

projection means for projecting light emitted from said space modulation means upon an image display screen,

wherein said illumination means has a plurality of groups each having at least each of three boundary periods between red and green, green and blue, and blue and red, respectively of illumination periods of the three primary colors, and the plurality of groups includes a first group having a white light illumination period having a length corresponding to an illumination light transition period during each boundary period and a second group without the white light illumination period during each boundary period.

b' 7. (Original) An image display apparatus according to claim 6, wherein for the first group, a same modulated signal for a white light gradation display having a length corresponding to the illumination light transition period is applied twice to set the signal period having a length twice the illumination light transition period, the signal period overlapping the white light illumination period, a same signal being applied to a same group during each of the three boundary periods between red and green, green and blue, and blue and red, and for the second group, a modulated signal for the white light gradation display having a length corresponding to the illumination light transition period is applied once, a signal period overlapping the white light illumination period, and a same signal being applied to a same group during each of the three boundary periods between red and green, green and blue, and blue and red.

8. (Original) An image display apparatus according to claim 4, 6 or 7, wherein the illumination light transition period of said illumination means is a period while a light spot on a rotary color filter plate traverses a boundary of the color filter plate.

9. (Original) An image display apparatus according to claim 4, 6 or 7, wherein the illumination light transition period of said illumination means is a response period of a color filter such as liquid crystal.

10. (Original) An image display apparatus according to claim 4, 6 or 7, wherein the illumination light transition period of said illumination means is a switching period between light emission sources such as LED.

11. (Original) An image display apparatus according to any one of claims 1, 4, 5 and 6, wherein said space modulation means is a space modulation unit for performing time divisional modulation.

12. (Original) An image display apparatus according to any one of claims 1, 4, 5 and 6, wherein said space modulation means is a space modulation unit using liquid crystal.

13. (Original) An image display apparatus according to any one of claims 1, 4, 5 and 6, wherein said space modulation means is a space modulation unit of a MEMS type.

14. (Original) An image display apparatus according to any one of claims 1, 4, 5 and 6, wherein said space modulation means is a space modulation unit disposed with micro mirrors.

15. (Original) An image display apparatus according to any one of claims 1, 4, 5 and 6, wherein said illumination means generates color field sequential illumination light by using a rotary color filter divided into a plurality of areas having different transmission wavelength bands.

16. (Original) An image display apparatus according to claim 8, wherein said illumination means generates color field sequential illumination light by using a rotary color filter divided into a plurality of areas having different transmission wavelength bands.

17. (Original) An image display apparatus according to any one of claims 1, 4, 5 and 6, wherein said illumination means generates color field sequential illumination light by switching between a plurality of liquid crystal filters having different transmission wavelength bands.

18. (Original) An image display apparatus according to claim 9, wherein said illumination means generates color field sequential illumination light by switching between a plurality of liquid crystal filters having different transmission wavelength bands.

19. (Original) An image display apparatus according to any one of claims 1, 4, 5 and 6, wherein said illumination means generates color field sequential illumination light by switching between light sources such as LED.

20. (Original) An image display apparatus according to claim 10, wherein said illumination means generates color field sequential illumination light by switching between light sources such as LED.

21. (Currently Amended) An image display method comprising steps of:

~~B /~~  
~~of generating a plurality of light beams having different colors, time sequentially switching the generated light beams; illuminating a space modulation means modulator with a plurality of light beams having different colors; and the light beam, and projecting light modulated by and output from the space modulation means upon an image display screen;~~

~~modulating the plurality of light beams according to input display data,~~

~~wherein said light modulated by said space modulation means is modulated according to input display data, and~~

~~wherein a white light illumination period is provided in each period between illumination periods for the plurality of light beams, having different colors.~~

22. (Original) An image display method according to claim 21, wherein during the white light illumination period provided for the plurality of light beams having different colors, a white luminance emphasizing process is dispersively performed.

23. (Original) An image display method according to claim 21 or 22, wherein synchronously with the white light illumination period provided for the plurality of light beams having difference color, a period of a white luminance emphasizing signal applied to the space modulation means is set longer than the white light illumination period and overlapped with a color light illumination period.

b  
24. (Currently Amended) An image display method comprising steps of:

of generating a plurality of light beams having different colors, time sequentially ~~switching the generated light beams;~~ illuminating a space modulator modulation means with a plurality of light beams having different colors, and the light beam, and projecting light modulated by and output from the space modulation means upon an image display screen;

modulating the plurality of light beams according to input display data, wherein said light modulated by said space modulation means is modulated according to input display data, and

wherein a white light illumination period having a length corresponding to an illumination light transition period is provided in each period between illumination periods for the plurality of light beams having different colors, and an operation of the

space modulator modulation means overlaps the white light illumination period by applying a modulated signal for a white light gradation display having a length corresponding to the illumination light transition period.

25. (Currently Amended) An image display method comprising steps ~~of: of generating a plurality of light beams of three primary colors, time sequentially switching the generated light beams,~~

~~time sequentially illuminating a space modulator modulation means with a plurality of light beams having different colors; and the light beam, and projecting light modulated by and output from the space modulation means upon an image display screen,~~

~~b  
modulating the plurality of light beams according to input display data, wherein said light modulated by said space modulation means is modulated according to input display data, and~~

~~wherein of a plurality of groups each having at least each of three boundary periods period between red and green, green and blue, and blue and red, respectively of illumination periods of the three primary colors, of the plurality of groups, at least one group is supplied with a signal different from signals supplied to other groups, and a same group is applied with a same signal during each of the three boundary periods period between red and green, green and blue, and blue and red.~~

26. (Currently Amended) An image display method comprising steps ~~of: of generating a plurality of light beams of three primary colors,~~

time sequentially switching the generated light beams; illuminating a space ~~modulator modulation means~~ with a plurality of light beams having different colors; and the light beam, and projecting light modulated by and output from the space modulation means upon an image display screen;

modulating the plurality of light beams according to input display data,

wherein said light modulated by said space modulation means is modulated according to input display data, and

wherein a plurality of groups each having at least each of three boundary periods period between red and green, green and blue, and blue and red, respectively of illumination periods of the three primary colors, include a first group having a white light illumination period having a length corresponding to an illumination light transition period during each boundary period and a second group without the white light illumination period during each boundary period.

27. (Original) An image display method according to claim 26, wherein for the first group, a same modulated signal for a white light gradation display having a length corresponding to the illumination light transition period is applied twice to set the signal period having a length twice the illumination light transition period, the signal period overlapping the white light illumination period, a same signal being applied to a same group during each of the three boundary periods between red and green, green and blue, and blue and red, and for the second group, a modulated signal for the white light gradation display having a length corresponding to the illumination light transition period is applied once, a signal period overlapping the white light illumination period, and a same

signal being applied to a same group during each of the three boundary periods between red and green, green and blue, and blue and red.

28. (Original) A storage medium storing a program for allowing a computer to realize a function of each means of the image display apparatus recited in any one of claims 1, 2, 4 to 7.

29. (Original) A storage medium storing a program for allowing a computer to realize the image display method recited in any one of claims 21, 22, 24 to 27.

30. (Original) A program for allowing a computer to realize a function of each means of the image display apparatus recited in any one of claims 1, 2, 4 to 7.

31. (Original) A program for allowing a computer to realize the image display method recited in any one of claims 21, 22, 24 to 27.

32. (Currently Amended) An image display apparatus comprising:  
a space modulator for modulating incident light according to input display data and outputting the modulated incidence light;  
an illuminator illumination means for generating a plurality of light beams having different colors, time sequentially switching the generated light beams and illuminating said space modulator with the light beam; and

a light projector projection means for projecting light emitted from said space modulator upon an image display screen,  
wherein a white light illumination period is provided for said illuminator illumination means per each interval between illumination periods for the plurality of light beams having different colors.

33. (Currently Amended) An image display apparatus comprising:  
a space modulator for modulating incident light according to input display data and emitting the modulated incidence light;  
an illuminator illumination means for generating a plurality of light beams having different colors, time sequentially switching the generated light beams and illuminating said space modulator with the light beam; and  
a light projector projection means for projecting light emitted from said space modulator upon an image display screen,  
wherein said illuminator illumination means has a white light illumination period having a length corresponding to an illumination light transition period provided per each interval between illumination periods for the plurality of light beams having different colors, and said space modulator repeats modulation twice during a signal period overlapping the white light illumination period, by using a same modulated signal for a white light gradation display having a length corresponding to an illumination light transition period to thereby set the signal period having a length twice the illumination light transition period.

34. (Currently Amended) An image display apparatus comprising:  
a space modulator for modulating incident light according to input display  
data and emitting the modulated incidence light;  
an illuminator illumination means for generating light beams of three  
primary colors of red (R), green (G) and blue (B), time sequentially switching the generated  
light beams and illuminating said space modulator with the light beam; and  
a light projector projection means for projecting light emitted from said  
space modulator upon an image display screen,  
wherein said illuminator illumination means has a plurality of groups each  
having at least each of three boundary periods period between red and green, green and  
blue, and blue and red, respectively of illumination periods of the three primary colors, of  
the plurality of groups, at least one group is supplied with a signal different from signals  
supplied to other groups, and a same group is applied with a same signal during each of the  
three boundary periods period between red and green, green and blue, and blue and red.

35. (Currently Amended) An image display apparatus comprising:  
a space modulator for modulating incident light according to input display  
data and emitting the modulated incidence light;  
an illuminator illumination means for generating light beams of three  
primary colors of red (R), green (G) and blue (B), time sequentially switching the generated  
light beams and illuminating said space modulator with the light beam; and  
light projector projection means for projecting light emitted from said space  
modulator upon an image display screen,

wherein said illuminator illumination means has a plurality of groups each having at least each of three boundary periods period between red and green, green and blue, and blue and red, respectively of illumination periods of the three primary colors, and the plurality of groups includes a first group having a white light illumination period having a length corresponding to an illumination light transition period during each boundary period and a second group without the white light illumination period during each boundary period.

36. (Currently Amended) An image display method comprising steps of: of generating a plurality of light beams having different colors,

B1  
time sequentially generating a plurality of light beams having different colors; and switching the generated light beams, illuminating a space modulator with the light beam, and projecting light modulated by and output from the space modulator upon an image display screen;

modulating the plurality of light beams according to input display data,  
wherein said light modulated by said space modulator is modulated according to input display data, and

wherein a white light illumination modulation period is provided in each period between illumination modulation periods for the plurality of light beams, having different colors:

37. (Previously Presented) An image display method of generating a plurality of light beams having different colors, time sequentially switching the generated

light beams, illuminating a space modulator with the light beam, and projecting light modulated by and output from the space modulator upon an image display screen,

wherein said light modulated by said space modulator is modulated according to input display data, and

wherein a white light illumination period having a length corresponding to an illumination light transition period is provided in each period between illumination periods for the plurality of light beams having different colors, and an operation of the space modulator overlaps the white light illumination period by applying a modulated signal for a white light gradation display having a length corresponding to the illumination light transition period.

38. (Previously Presented) An image display method of generating a plurality of light beams of three primary colors, time sequentially switching the generated light beams, illuminating a space modulator with the light beam, and projecting light modulated by and output from the space modulator upon an image display screen,

wherein said light modulated by said space modulator is modulated according to input display data, and

wherein of a plurality of groups each having at least each of three boundary periods period between red and green, green and blue, and blue and red, respectively of illumination periods of the three primary colors, of the plurality of groups, at least one group is supplied with a signal different from signals supplied to other groups, and a same group is applied with a same signal during each of the three boundary periods period between red and green, green and blue, and blue and red.

39. (Previously Presented) An image display method of generating a plurality of light beams of three primary colors, time sequentially switching the generated light beams, illuminating a space modulator with the light beam, and projecting light modulated by and output from the space modulator upon an image display screen, wherein said light modulated by said space modulator is modulated according to input display data, and

wherein a plurality of groups each having at least each of three boundary periods ~~period~~ between red and green, green and blue, and blue and red, respectively of illumination periods of the three primary colors, include a first group having a white light illumination period having a length corresponding to an illumination light transition period during each boundary period and a second group without the white light illumination period during each boundary period.